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RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/922,958

DATE: 08/14/2001 TIME: 12:25:37

Input Set : A:\PTO_VSK.txt

Output Set: N:\CRF3\08142001\I922958.raw



	3 <	110>	APP	LICA	NT:	POEL	LING	ER,	Lore	nz									
	4		PER	EIRA	, Te	resa													
	5		RUA	s, J	orge									- 55		m T ()	1 05	ਾਪ ਵਾ	HYPOXTA-INDUCIBLE
	7 /	120>	ጥፐጥ	LE O	F IN	VENT	ION:	MEC	HANI	SM C	F CO	NDIT	'IONA	L KE	GULA	TION	OF	III	HYPOXIA-INDUCIBLE
FACTO																			
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Ø C>	12 3	.141/	DDT	UB Y	PPT.T	CATI	ON	NUMBE	ER: U	rs 60	/223	,480)						
	12 <	.15U/	LUU	OR E	TT.TN	IG DA	TE:	2000	-08	07									
	13 <	11 C V >	MILIN	OR F	UE C	EO 1	ED NO	os: 7	7										
	15 <	.170>	COL	IDEIN	OF E	oater	nt Tn	vers	sion	3.0									
	1/ <	<1/0> 10	CEC	, TMV	и 	1	1011												
	19 <	(21U)	> 5EQ	TOUIT.	NO.	,					•								
	20 <	<211>	> LED	NGIH	. 044 SNIN	4													
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	24 •	<220>	> FE	ATURI	5: 	ana											•		
	25	<221	> NAI	ME/KI	EX: ((1)	163	۵ı											
		<222				4													
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	29	atg (ccc (cgg a	agg	gcg	gag	Asn	mrn	yuc Nen	Glu .	Ala	Glu	val	Gly	Ala	Glu		
	30	Met :	Pro i	Arg A	Arg	Ala '	GIU	ASII	11P	rsb	10				_	15			
	31	1				5			~~~	aat	uaa Tu	gaa	σас	aac	aaa	gag	gag		96
	33	gag	gca	ggc	gtc	gaa	gag	tac Tyr	990	Dro	Glu	Glu	Asp	Glv	Gly	Glu	Glu		
	34	Glu .	Ala	Gly	Val	Glu	Glu	Tyr	СТА	25	GIU	Oru		1	30				
	35				20		_			ZJ ~~~	~~ ~	tac	aac	cca		qaa	ctg		144
	37	tcg	ggc	gcc	gag	gag	tcc	ggc	ccg	gaa	Clu	Cor	Clv	Pro	Glu	Ğlu	Leu		
	38	Ser	Gly	Ala	Glu	Glu	Ser	Gly	PIO	GIU	GIU	JCI	011	45					
																			192
	41	ggc	gcc	gag	gag	gag	atg	gag	gcc	999	222	Dro	Ara	Pro	Val	Leu	Arq		
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																			288
			cgc	gtc	gtg	ctg	CCC	gta	tgg	ctc	aac	TTC	gac	990	Clu	Dro	Gln		
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		ccc	tac	cca	açg	ctg	ccg	cct	ggc	acg	ggc	cgc	cgc	alc	Uic	cor	Tyr		
	54	Pro	Tvr	Pro	Thr	Leu	Pro	Pro	Gly	Thr	GLA	Arg	Arg	TTe		Ser	Tyr		
																			384
•			aat	cac	ctt	tgg	ctc	ttc	aga	gat	gca	ggg	aca	cac	gat	999	ctt Leu	,	
	5.2 5.8	Ara	Glv	His	Leu	Trp	Leu	Phe	Arg	Asp	Ala	Gly	Thr	1110	Asp	GTĀ	Leu		
																			432
			att		caa	act	gaa	tta	ttt	gtg	cca	tct	ctc	aat	gtt	gac	gga Gly		4 J 2
	62	Len	Val	Asn	Gln	Thr	Glu	Leu	Phe	Val	Pro	Ser	цСи		val	ASP	Gly		
	63		130					135					140						•
	0.5		130																

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Output See. M. (See See	
the age of a coa of a tat act city and yes	480
65 cag cct att ttt gcc aat atc aca ctg ccu gtg are Thr Leu Lys Glu 66 Gln Pro Ile Phe Ala Asn Ile Thr Leu Pro Val Tyr Thr Leu Lys Glu 150 155	
66 GIn Pro 11e File Mid 155 160	E 2 0
6/ 145	528
69 cga tgc ctc cag gtt gtc cgg agc cta gtc dag 600 345 70 Arg Cys Leu Gln Val Val Arg Ser Leu Val Lys Pro Glu Asn Tyr Arg	
70 Arg Cys Leu Gln Val Val Arg Ser Leu Val 175	
71 165 170 73 aga ctg gac atc gtc agg tcg ctc tac gaa gat ctg gaa gac cac cca 73 aga ctg gac atc gtc agg tcg ctc tac gaa gat ctg gaa gac cac cca	576
73 aga ctg gac atc gtc agg tcg ctc tac gaa gat ctg ctg fly Asp His Pro	
74 Arg Leu Asp Ile Val Arg Sel Leu III 314 110	
75 180 185 190 art gga cat	624
/ J are of a aga cad gad cgc all year car	-
77 aat gtg cag aaa gac ctg gag cgg ctg act cag gas s 78 Asn Val Gln Lys Asp Leu Glu Arg Leu Thr Gln Glu Arg Ile Ala His 200 205	
	(1)
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94 1 5 Slu Mur Cly Pro Glu Glu Asp Gly Glu Glu	
94 1 5 10 97 Glu Ala Gly Val Glu Glu Tyr Gly Pro Glu Glu Asp Gly Gly Glu Glu 97 Glu Ala Gly Val Glu Tyr Gly Pro Glu Glu Asp Gly Gly Glu Glu 97 30	
98 20 23 101 Ser Gly Ala Glu Glu Ser Gly Pro Glu Glu Ser Gly Pro Glu Glu Leu	
101 Ser Gly Ala Glu Glu Ser Gly Pro Glu Glu Ser Gly	
102 35 40 Pro Val Leil Arg	
102 35 40 105 Gly Ala Glu Glu Met Glu Ala Gly Arg Pro Arg Pro Val Leu Arg	
105 GIY AIR OIR GIZ 55 60	
106 50 55 109 Ser Val Asn Ser Arg Glu Pro Ser Gln Val Ile Phe Cys Asn Arg Ser 75 80	
109 Sel Val ASII 552 1129 75 75 75 70 75 75 70 71 71 71 71 71 71 71 71 71 71 71 71 71	
110 65 70 113 Pro Arg Val Val Leu Pro Val Trp Leu Asn Phe Asp Gly Glu Pro Gln	
113 Pro Arg val val lieu 123 val 90 95	
114 85 117 Pro Tyr Pro Thr Leu Pro Pro Gly Thr Gly Arg Arg Ile His Ser Tyr	
117 Pro Tyr Pro Thr Leu Pro Pro Gry 1112 5110	
118 100 103 121 Arg Gly His Leu Trp Leu Phe Arg Asp Ala Gly Thr His Asp Gly Leu	
121 Arg Gly His Leu Trp Leu Phe Arg Asp Ala Gly III 125	
122 115 120 120 Asp Val Asp Gly	
122 115 120 125 Leu Val Asn Gln Thr Glu Leu Phe Val Pro Ser Leu Asn Val Asp Gly	
125 Led Val Abi 021 135 140	
126 130 135 129 Gln Pro Ile Phe Ala Asn Ile Thr Leu Pro Val Tyr Thr Leu Lys Glu 129 Gln Pro Ile Phe Ala Asn Ile Thr Leu Pro Val Tyr Thr Leu Lys Glu	
129 GIR PIO 11e 11e 11e 11e 11e 11e 11e 11e 11e 11	
130 145 133 Arg Cys Leu Gln Val Val Arg Ser Leu Val Lys Pro Glu Asn Tyr Arg 170 175	
133 Arg Cys Leu Gill val val my 551 170 175	
134 165 170 137 Arg Leu Asp Ile Val Arg Ser Leu Tyr Glu Asp Leu Glu Asp His Pro	
137 Arg Leu Asp Ile Val Arg Sei Leu 191 GT 191 190	
137 Arg Let Map 190 185 186 187 Arg Let Map 190 187 Arg Let Map 190 188 Arg Ile Ala His	
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159 at	tg g	gag	ggc	gcc	ggc	gge (gcy	aac	Nan	Tare	Lvs	Lvs	Tle	Ser	Ser	Glu	
159 at 160 Me	et G	Slu	Gly	Ala	GTÀ	GIY A	Ald	ASII	мэр	10	Lyb			-	15		
161 1					5		~~~	~a+	aca	acc.	аσа	tet.	caa	cqa	agt	aaa	96
161 1 163 cq 164 A	gt (ega	aaa	gaa	aag	tct	cya	yaı Nan	y Ca Nla	Δla	Ara	Ser	Arq	Arq	Ser	Lys	
164 A	rg P	۱rg	Lys		ьуs	ser	Arg	АЗР	25	HIU	212 9		3	30			
165 167 ga				20		A 4-	~~~	att	act	cat	саσ	t.t.a	cca	ctt	cca	cat	144
167 g	aa t	tct	gaa	gtt	ttt	Tat	gag	TOU	λla	Hig	Gln	Leu	Pro	Leu	Pro	His	
	lu s	Ser		Val	Pne	туг	GIU	40	Ата	III	0.2		45				
169 171 a			35				~~+	220	acc	tct	αtα	atσ	agg	ctt	acc	atc	192
171 a 172 A	at (gtg	agt	tcg	cat	CLL	gal	Tuc	η CC λla	Ser	Val	Met	Arg	Leu	Thr	Ile	
172 A			Ser	Ser	HIS	Leu	55	пур	ALG	DCI	,	60	5				
173 175 a		50					22	att	cta	gat	act.	aat	gat	ttg	gat	att	240
175 a 176 S	gc '	tat	ttg	cgt	gtg	agg	Tuc	LOU	T.eli	Asp	Ala	Glv	Asp	Leu	Asp	Ile	
		Tyr	Leu	Arg	vaı	Arg	гуѕ	цец	пец	735P	75	J-1				80	
177 6 179 g						70	a 2 a	a+a	aat	tac	ttt	tat	ttq	aaa	gcc	ttg	288
179 g 180 G	jaa	gat	gac	atg	aaa	gca	cay	Mot	Agn	Cvs	Phe	Tvr	Leu	Lys	Ála	Leu	
180 G	lu .	Asp	Asp	Met	Lys	Ald	GIII	Mec	ASII	90		-1-		-	95		
181 183 g					85	~++	a+ a	202	σat	σat	aat.	σac	atq	att	tac	att	336
183 g 184 A	gat	ggt	ttt	gtt	atg	gtt	TOU	Thr	Agn	Δen	Glv	Asp	Met	Ile	Tyr	Ile	
	Asp	Gly	Phe		met	Val	ьеu	TILL	105	PF	1			110			•
185 187 t				100			+20	ata	ααα	tta	act	caq	ttt	gaa	cta	act	384
187 t 188 S	tct	gat	aat	gtg	aac	Tuc	Tur	Met	Glv	Leu	Thr	Gln	Phe	Glu	Leu	Thr	
189 191 g			115	~+~	+++	σa+	+++	act	cat	cca	tat	gac	cat	gag	gaa	atg	432
191 g 192 G	gga	cac	agt	glg	Dha	yac Aan	Dha	Thr	His	Pro	Cvs	Asp	His	Glu	Glu	Met	
		400					135					TAO					
193 195 a		130		_++	242	G2.C	242	aat	aac	ctt	ata	aaa	aag	ggt	. aaa	gaa	480
195 a 196 <i>l</i>	aga	gaa	atg	CLL	mbr	. Uic	Δra	Asn	Glv	Leu	. Val	Lys	Lys	Gly	Lys	Glu	
197						200	+++	+++	cte	aσa	ato	aag	tgt	acc	: cta	act Thr	528
199	caa	aac	aca	. cay	. Ara	Cor	Dhe	Phe	Leu	Arq	Met	Lys	Cys	Thr	Leu	Thr	
					165					170	,						_
201							220	a+a	220	rtet	gca	aca	tgg	aag	gta	ttg L Leu	576
203	agc	cga	gga	aya . Ama	mhr	. acy · Mot	Δan	Tle	LVS	Ser	Ála	Thr	Tr	Lys	val	Leu	
				100					I O.	,					-		
205				180		++	cac	ata	tat	- gat	aco	aac	agt	aac	caa	a cct n Pro	624
207	cac	tgo	acc	. 61.	, uic	, all	His	. Val	Tvi	Asr	Th	r Asr	sei	. Asr	ı Glı	n Pro	
209		. •	195		- 221	ב ב ב	רכי		ato	aco	e ta	c tto	gt	g ctq	g at	t tgt e Cys	672
211	cag	tgt	- gg9	, i.a.	. aag	, uua : T.vc	pro	Pro	Met	Th	r Cy	s Lei	ı Va	l Lei	ı Ile	e Cys	
	GIn			, T.A.	гпХз	, шуа	215	, \ 5			-	220)				
213		210	J					-									

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				Outp	uc 5	CC	(0	(
215	~ 22	acc	att	cct	cac	cca	tca	aat	att	gaa	att	cct	tta	gat	agc	aag	720
213	gaa	Dro	Tle	Pro	His	Pro	Ser	Asn	Ile	Glu	Ile	Pro	Leu	Asp	Ser	Lys	
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217	223	++0	ata	ant	cga		aσc	ctg	gat	atg	aaa	ttt	tct	tat	tgt	gat	768
219	act	Dha	Tou	cor	λrσ	His	ser	Leu	Ásp	Met	Lys	Phe	Ser	Tyr	Cys	Asp	
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221						ttg	atα	aga	tat	gag	cca	gaa	gaa	ctt	tta	ggc	816
223	gaa	aga	att	acc	gaa	Leu	ucy Mot	G1v	Tyr	Glu	Pro	Ğlu	Glu	Leu	Leu	Gly	
225				260		tat		aa+	act	ttα	αас	tet	gat	cat	ctg	acc	864
227	cgc	tca	att	tat	gaa	tat	tal	Cat	312	LCG	Acn	Ser	Asp	His	Leu	${ t Thr}$	
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231	aaa	act	cat	cat	gat	atg	ttt	act	aaa	gga	Cdd	37-1	mb~	Thr	Glv	cag Gln	
232	Lys	Thr	His	His	Asp	Met	Phe	Thr	Lys	Gly	GIN	vu.	TIII	TIIL	OLY	Gln	
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239	gca	mb-	. y.c.	T10	Tyr	Δsn	Thr	Lvs	Asn	Ser	Gln	Pro	Gln	Cys	Ile	Val	
241						~+ ~	ant	aat	att	att	cag	cac	gac	ttg	att	ttc Phe	1056
243	tgt	gtg	aat	. tac	gtt	y cy	cor	23 v	Tle	Tle	Gln	His	Asp	Leu	Ile	Phe	
244	Cys	Val	. Asn	Tyr	Val	vai	Ser	GLY	345	110	0.2			350)		
245				340					243	222	cca	att	ааа	tct	tca	gat	1104
247	tcc	ctt	: caa	caa	aca	gaa	tgt	gtc	CLL	aaa Ta	Dro	y trail	Gli	Ser	Ser	gat Asp	
248	Ser	Leu	ı Glr	Gln	Thr	GLu	Cys	val	Leu	пур	PIC	, vas	365			Asp	
			~	•				4 h i i									1152
251	ato	aaa	ato	, act	cag	cta	ttc	acc	aaa	gtt	. gaa	Con	. Cl	. Aer	, Thi	a agt	
252	Met	Lys	Met	Thr	Gln	Leu	Phe	Thr	Lys	vaı	. GIU	. DC	. 010	I WaF	, 1111	ser ser	
							- '2'/ h					201	,				1200
		cto	ttt:	gac	aaa	ctt	aag	aag	gaa	cct	: gat	. gc1		ı acı	. LL!	g ctg 1 Leu	1200
256	. Co	r T.ei	ı Phe	Asp	Lys	Leu	Lys	Lys	Glu	Pro	, vol	, 177.	a Let	ı Tnı	r Lei		
																	1240
			ם מכנ	r act	- aaa	gac	aca	ato	ata	tct	: tta	a ga	t tti	t ggo	c ago	c aac r Asn	1248
203	9 900	. D.	2 9C	- 900 - λla	- 33°	ASD	Thr	: Ile	. Ile	. Ser	: Lei	ı As	p Pho	e Gly	y Se	r Asn 5	
					100					41	,						
263							cac	т саа	ctt	σασ	g qaa	gt	a cc	a tta	a ta	t aat r Asn	1296
26.	3 ga	c ac	a ga	a act	- yai	, guo	Clr	Glr	Leu	ı Gli	ı Ğlı	ı va	l Pr	o Lei	и Ту	r Asn	
26	5			420	Ι.				7 0722	, 222	a tta	а са	σaa	t at	a aa	t ttg n Leu	1344
26	7 ga	t gt	a at	g cto	c cc	c tca	CCC	aat	o Glo	1 UU	r T.O	ı Gl	n As	n Il	e As	n Leu	
26	8 As	p Va	l Me	t Lei	u Pro	o Ser	Pro	O ASI	J GIL	т гр.	2 TIC.	u 0.	44	5		n Leu	
27	1 qc	a at	g tc	t cc	a tta	a ccc	ac	c gc	t gaa	a ac	g cc	a aa	y cc	a cc	u Ar	a agt g Ser	
27	2 Å1	a Me	t Se	r Pr	o Lei	u Pro	Th:	r Ala	a GΣι	ı Tn:	r Pr	U 11		о пе	u AI	g Ser	
				c cc	t gc	a cto	aa	t ca	a gaa	a gt	t gc	a tt	a aa	a tt	a ga	a cca u Pro	. 1440
27	6 60	r 1	a As	p Pr	o Āl	a Lei	ı As	n Gl	n Gl	u Va	T VT	u LC	u Ly	s Le	u GI		
27	0 22	+ ~~	בת בו	a tc	a ct	σ σα	a ct	t tc	t tt	t ac	c at	g co	c ca	g at	t ca	g gat	1488
21	y aa	L CC	a ya	.y .c		y 941											

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283	cag	aca	cct	agt	cct	tcc	gat	gga	agc	act	aga	caa	agt	tca	CCL	gag	1330
284	Gln	Thr	Pro	Ser	Pro	Ser	Asp	Gly	Ser	Thr	Arg	GIn	Ser	ser	Pro	GLU	
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287	cct	aat	agt	CCC	agt	gaa	tat	tgt	ttt	tat	gtg	gat	agt	gat	atg	guc	1304
288	Pro	Asn	Ser	${\tt Pro}$	Ser	Glu	Tyr		Phe	Tyr	Val	Asp	Ser	Asp	мет	vaı	
289			515					520					525				1622
291	aat	gaa	ttc	aag	ttg	gaa	ttg	gta	gaa	aaa	ctt	ttt	gct	gaa	gac	aca	1632
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300	Met	Leu	Ala	Pro	Tyr	Ile	Pro	Met	Asp	Asp	Asp	Phe	Gln	Leu	Arg	Ser	
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317	625					630					635					040	
319	tct	cca	tct	cct	acc	cac	ata	cat	aaa	gaa	act	act	agt -	gcc	aca	tca	1968
320	Ser	Pro	Ser	Pro	Thr	His	Ile	His	Lys	Glu	Thr	Thr	Ser	Ala	Thr	Ser	
321					645					650					655		
323	tca	cca	tat	aga	gat	act	caa	agt	cgg	aca	gcc	tca	cca	aac	aga	gca	2016
324	Ser	Pro	Tvr	Ara	Asp	Thr	Gln	Ser	Arg	Thr	Ala	Ser	Pro	Asn	Arg	Ala	
325				660					665					6/0			
327	σσα	aaa	σσα	atc	ata	gaa	cag	aca	gaa	aaa	tct	cat	cca	aga	agc	cct	2064
328	Glv	Lvs	Glv	Val	Ile	Ğlu	Gln	Thr	Glu	Lys	Ser	His	Pro	Arg	Ser	Pro	
329			675					680					685				
221	220	ata	++=	tot	atc	act	ttg	agt	caa	aga	act	aca	gtt	cct	gag	gaa	2112
332	Agn	۷al	Leu	Ser	Val	Ala	Leu	Ser	Gln	Arg	Thr	Thr	Val	Pro	Glu	Glu	
222		690					695					700					
335	αaa	cta	aat	cca	aaσ	ata	cta	qct	ttg	cag	aat	gct	cag	aga	aag	cga	2160
332	G111	T,011	Agn	Pro	Lvs	Ile	Leu	Ãla	Leu	Gln	Asn	Ala	Gln	Arg	Lys	Arg	
	705				_, _	710					715					720	
230	aaa	ato	สลล	cat	gat	aat	tca	ctt	ttt	caa	gca	gta	gga	att	gga	aca	2208
310	Luc	Mot	Glii	Hig	Asn	Glv	Ser	Leu	Phe	Gln	Āla	Val	Gly	Ile	Gly	Thr	
341					725	,				730					/30		
343	++=	++=	Can	ר מח	CC3	สลด	gat	cat	gca			aca	tca	ctt	tct	tgg	2256
2///	יים. דים	Leu	. cay	Gln	Pro	Asn	Asp	His	Ála	Ãla	Thr	Thr	Ser	Leu	Ser	Trp	
J44	пеп	. neu		. ОТ		P	P										

VERIFICATION SUMMARY

PATENT APPLICATION: US/09/922,958

DATE: 08/14/2001 TIME: 12:25:38

Input Set : A:\PTO_VSK.txt

Output Set: N:\CRF3\08142001\I922958.raw

L:12 M:270 C: Current Application Number differs, Replaced Current Application No

L:12 M:271 C: Current Filing Date differs, Replaced Current Filing Date

L:605 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:6 L:618 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:7